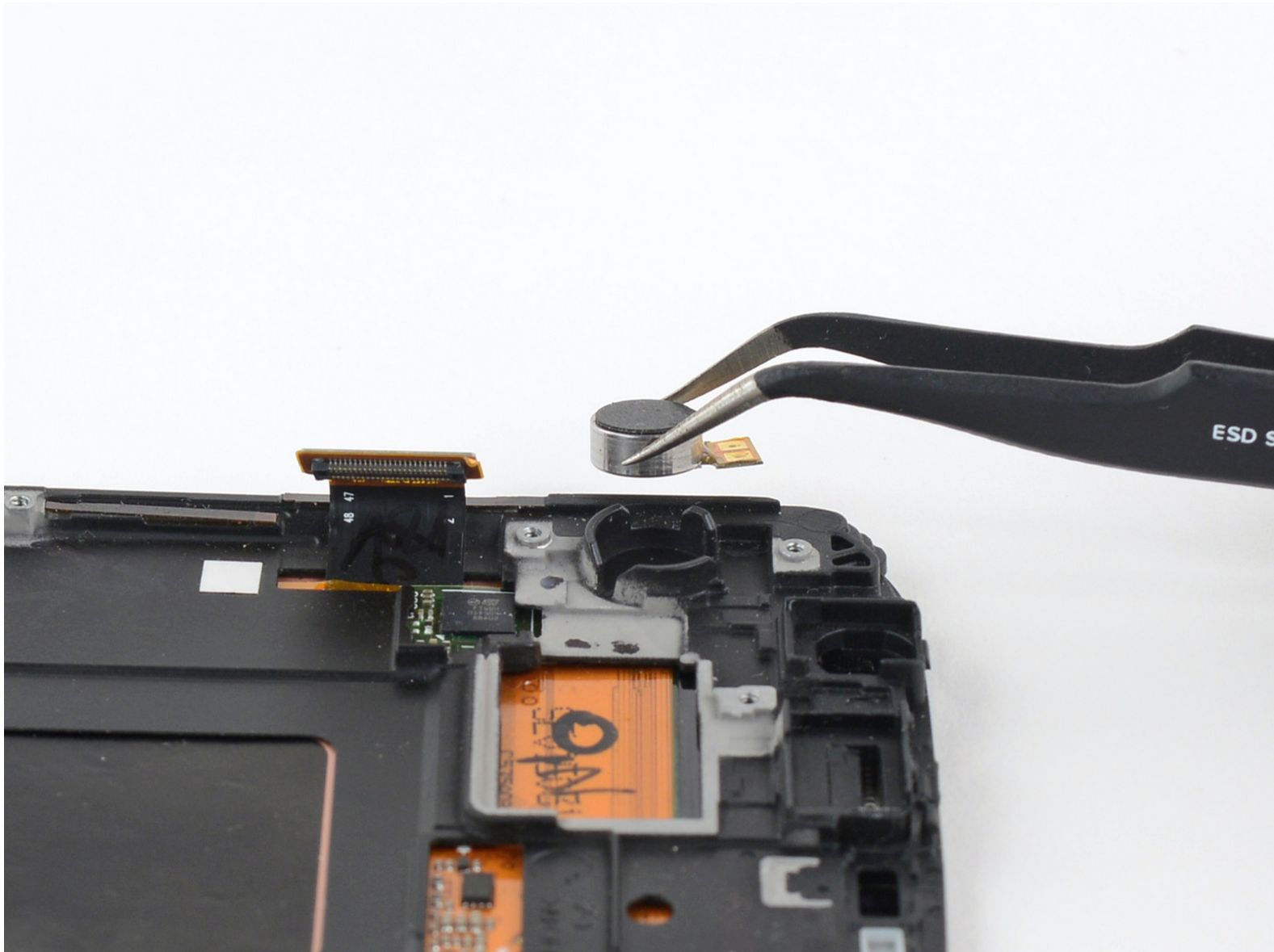




Samsung Galaxy S6 Edge Display Assembly Replacement

Replace a cracked or broken Samsung Galaxy S6 Edge screen.

Written By: Sam Lionheart



INTRODUCTION

Use this guide to learn how to replace the screen on your Samsung Galaxy S6 Edge. Follow this guide to remove all components from the display assembly with includes the digitizer, OLED display, display frame, and home button.

If your replacement part does not come with a home button or display frame, you may need to further disassemble your display assembly to transfer those components.

This guide involves removing the rear glass. Removing the rear glass destroys the adhesive holding it in place. Follow [this guide](#) to reinstall the rear glass.



TOOLS:

- [SIM Card Eject Tool](#) (1)
- [iOpener](#) (1)
- [Heavy-Duty Suction Cups \(Pair\)](#) (1)
- [iFixit Opening Tools](#) (1)
- [iFixit Opening Picks set of 6](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [Spudger](#) (1)
- [Precision Tweezers Set](#) (1)



PARTS:

- [Galaxy S6 Edge LCD Screen and Digitizer Assembly \(GSM\)](#) (1)
- [Galaxy S6 Edge LCD Screen and Digitizer Assembly \(CDMA\)](#) (1)
- [NuGlas Tempered Glass Screen Protector for Galaxy S6 Edge](#) (1)

Step 1 — SIM Tray



- Insert a paper clip or SIM eject tool into the hole in the SIM card slot on the power button side of the phone.
 - ⚠ Do not insert the tool into the microphone hole or you could cause damage. Look for the outline of the SIM tray.
- Press to eject the SIM card tray.
- Remove the SIM card tray from the phone.

Step 2 — iOpener Heating



- ⓘ We recommend that you clean your microwave before proceeding, as any nasty gunk on the bottom may end up stuck to the iOpener.
- Place the iOpener in the center of the microwave.
- ⚠ For carousel microwaves: Make sure the plate spins freely. If your iOpener gets stuck, it may overheat and burn.

Step 3



- Heat the iOpener for **thirty seconds**.
- Throughout the repair procedure, as the iOpener cools, reheat it in the microwave for an additional thirty seconds at a time.

- ⚠ Be careful not to overheat the iOpener during the repair. Overheating may cause the iOpener to burst.
- ⚠ Never touch the iOpener if it appears swollen.
- ⚠ If the iOpener is still too hot in the middle to touch, continue using it while waiting for it to cool down some more before reheating. A properly heated iOpener should stay warm for up to 10 minutes.



Step 4



- Remove the iOpener from the microwave, holding it by one of the two flat ends to avoid the hot center.
- ⚠ The iOpener will be very hot, so be careful when handling it. Use an oven mitt if necessary.

Step 5 — Rear Glass



-  Place the phone facedown.
-  If your glass is shattered, put packing tape over the entire panel to hold it together during the removal process.
- Lay the iOpener over the panel for about 60 seconds to loosen the adhesive around the edge of the glass.
- Shift the iOpener to heat the remaining section of the panel for another 60 seconds.

Step 6



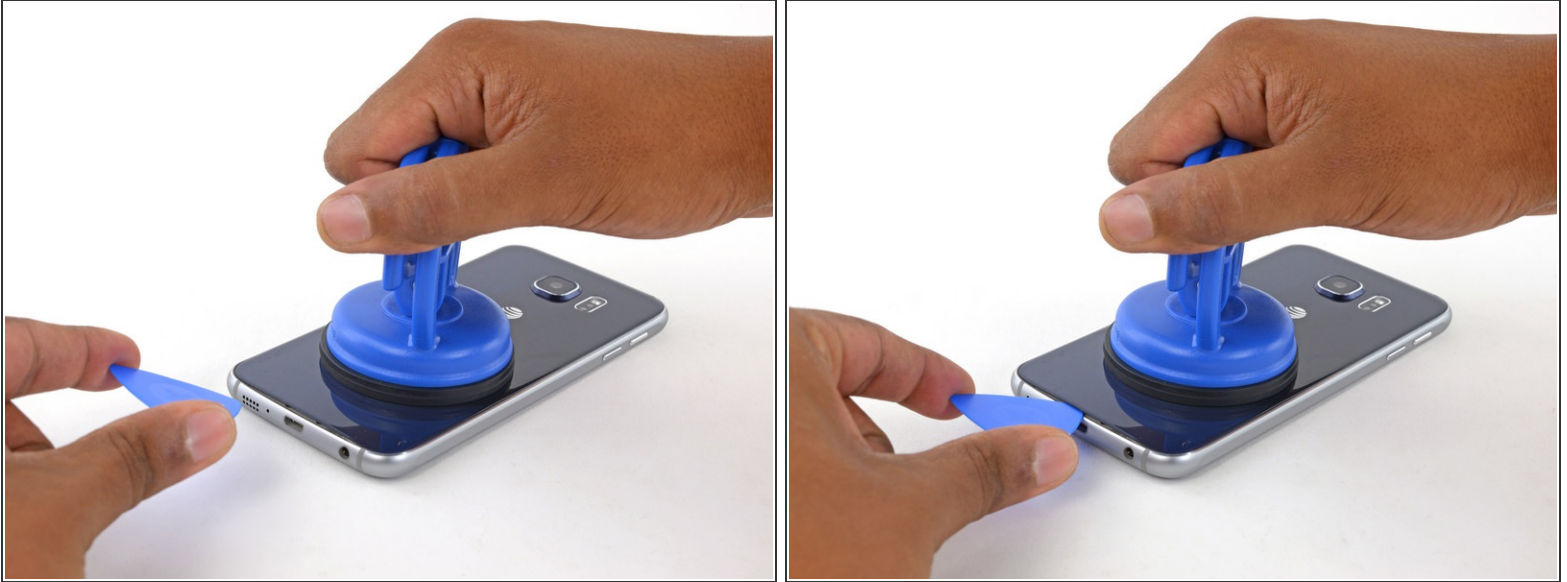
- Attach a heavy-duty suction cup to the lower half of the rear glass panel.
- Secure the suction cup by raising the hinged handle and flipping the latch to clamp both handles in place.

Step 7



- ⓘ The following steps involve using an opening pick to separate the rear panel from the midframe. If the adhesive is too strong, reapply heat with the iOpener.
- Using the suction cup, apply pressure to the middle section of the panel while pulling up the lower edge by pivoting your wrist.

Step 8



- Once you've opened a large enough gap, insert an opening pick between the rear glass and the midframe.

Step 9



- Slide the opening pick around the bottom left corner of the rear glass panel.

Step 10



- Slide the pick along the power button side of the phone.

Step 11



- Slide the opening pick across the top of the phone.

Step 12



- Slide the opening pick down along the volume buttons side of the phone.

Step 13



- Pull up on the rear glass panel while holding down the midframe to separate the components.
- ❗ If you encounter too much resistance from the adhesive, slide the opening pick under the glass a few more times.

Step 14



- Insert an opening pick between the rear panel and the midframe.
- Slide the pick along the top of the phone to loosen the remaining adhesive.
- Twist the pick to separate the two pieces.

Step 15



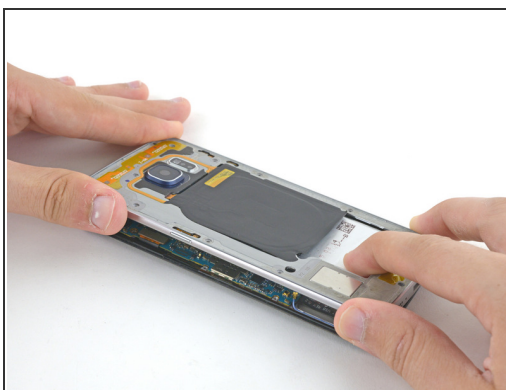
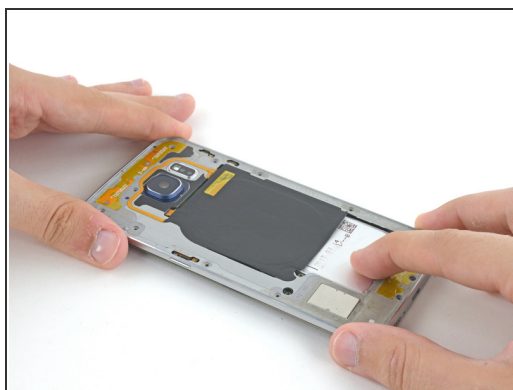
- i** At this point, the rear glass panel should be fully separated from the body of the phone, although the adhesive strip may be attached to both sides.
- Pull the rear panel up and away to completely separate it.
- ★** Follow [this guide](#) to reinstall the rear glass.

Step 16 — Midframe Assembly



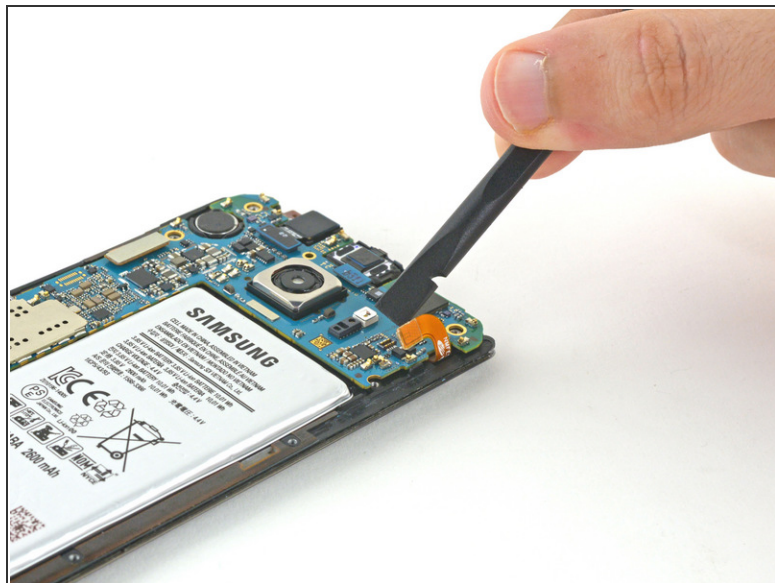
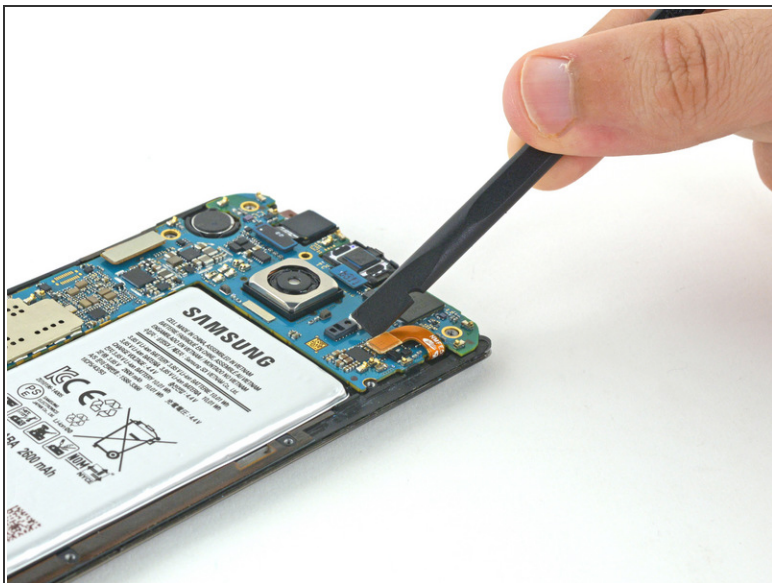
- Remove the thirteen 3.3 mm Phillips #00 screws from the midframe.

Step 17



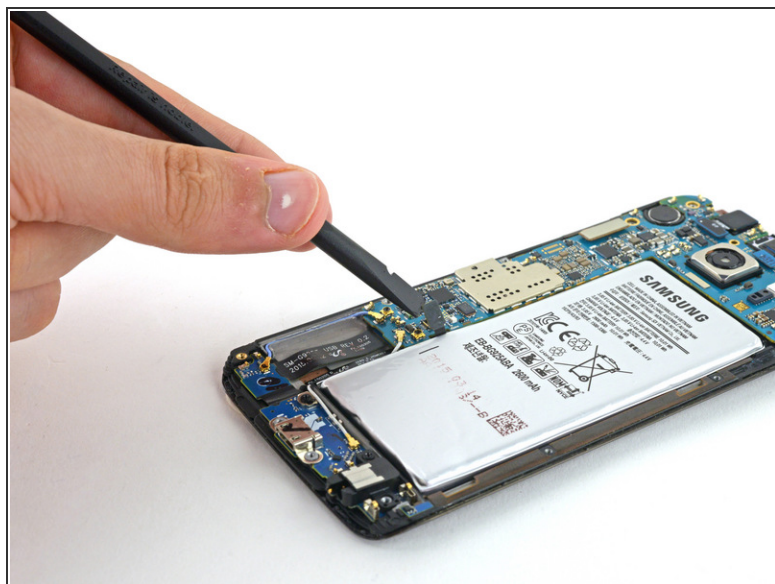
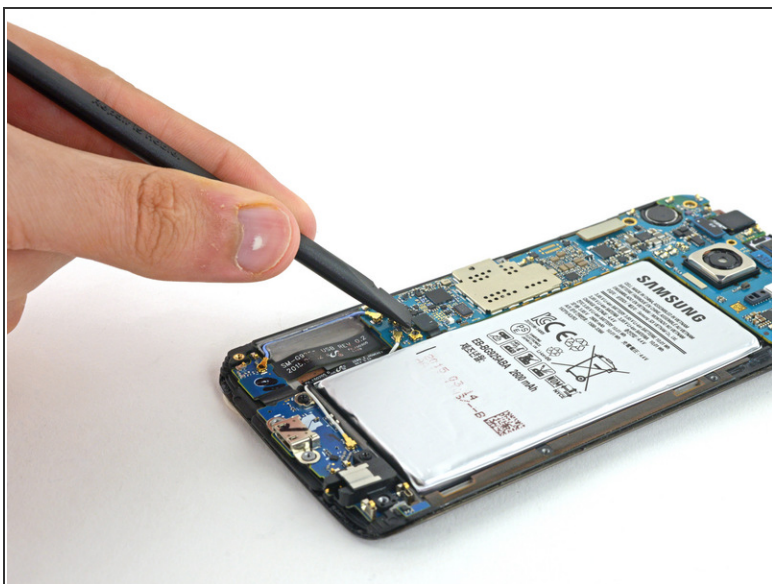
- Press down on the back of the battery and lift up on the edges of the midframe to separate it from the rest of the phone.

Step 18 — Motherboard



- Using the flat end of the spudger, disconnect the battery ribbon cable from the motherboard.

Step 19



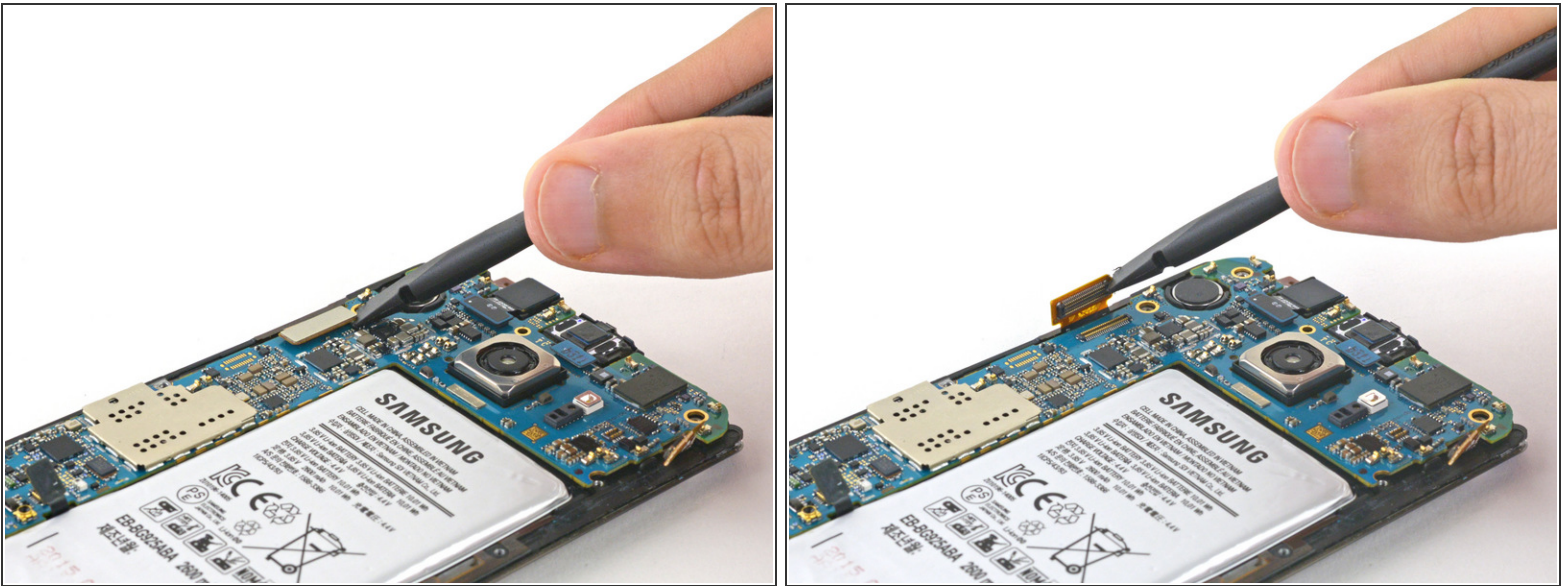
- Disconnect the home button ribbon cable from the motherboard.

Step 20



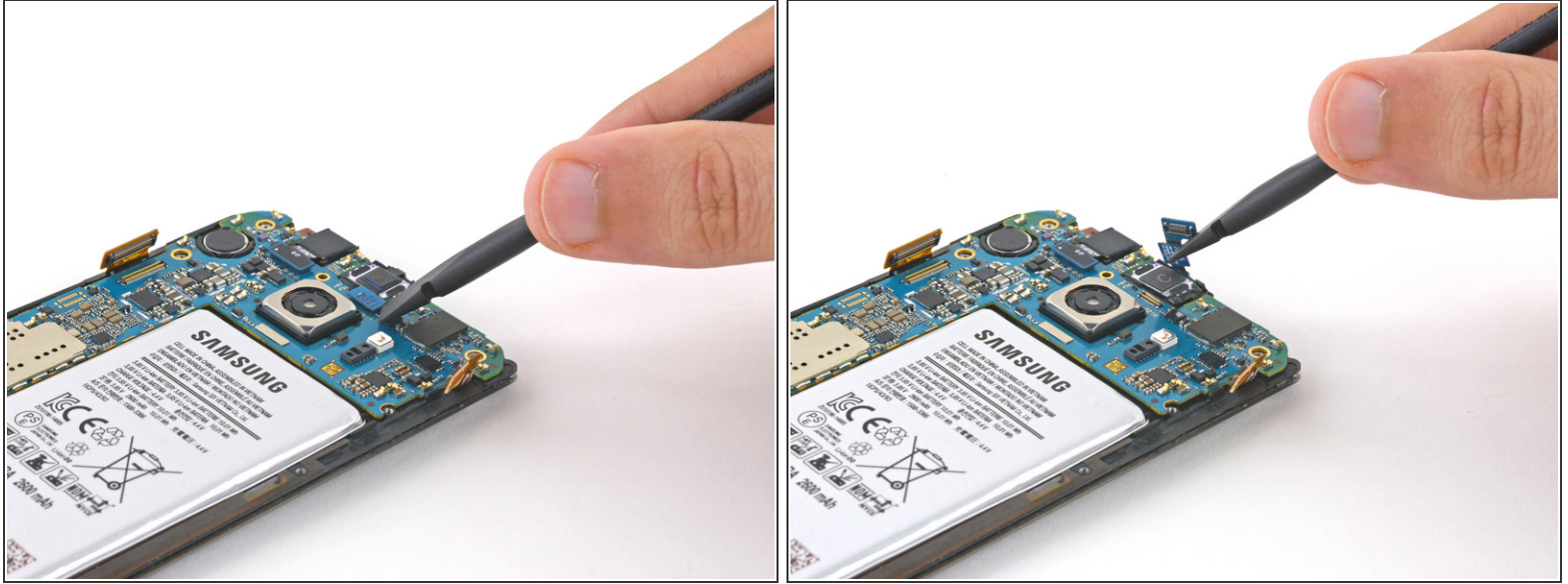
- Use the pointed end of a spudger to disconnect the two wifi antennas from the motherboard.

Step 21



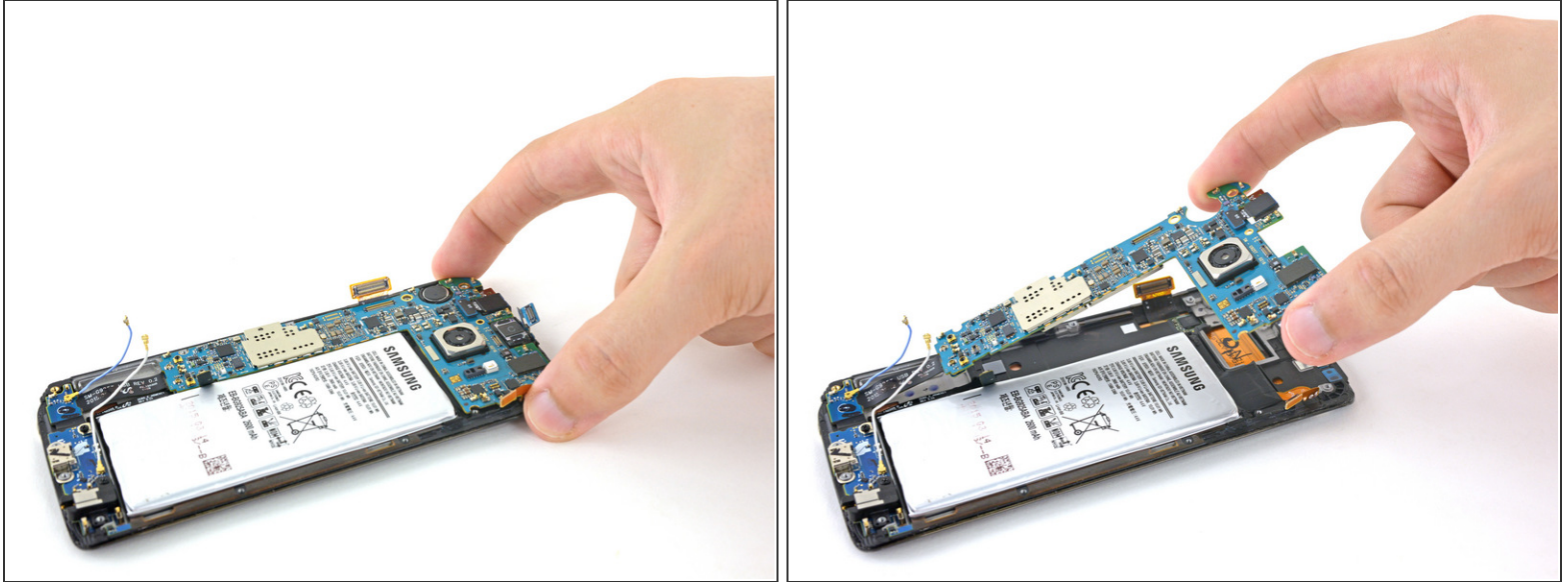
- Disconnect the display ribbon cable from the motherboard using the flat end of the spudger.

Step 22



- Disconnect the earpiece ribbon cable from the motherboard.

Step 23



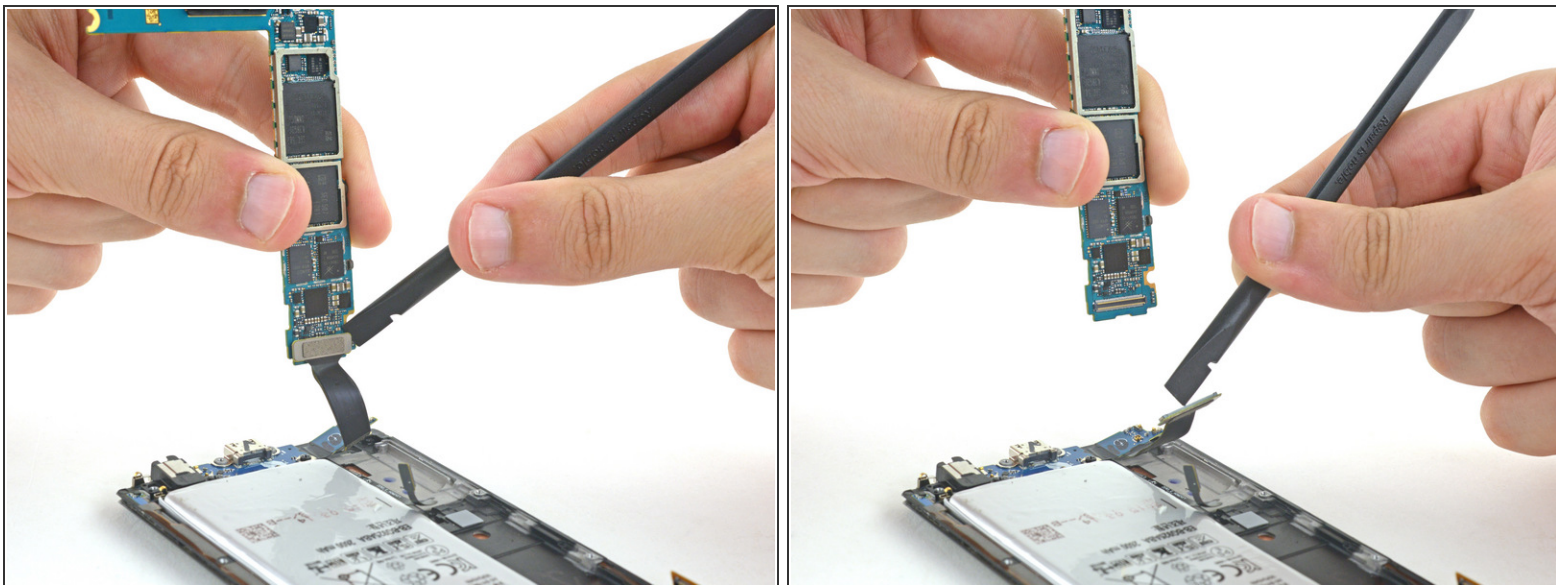
⚠ The motherboard is an ESD sensitive component and should be handled with care. iFixit recommends using a anti-static bracelet whenever handling components of this nature to avoid damage.

- Grip the motherboard on both edges toward the top of the device.

⚠ Do not lift the motherboard all the way out in this step; the ribbon cable on the underside needs to be disconnected first.

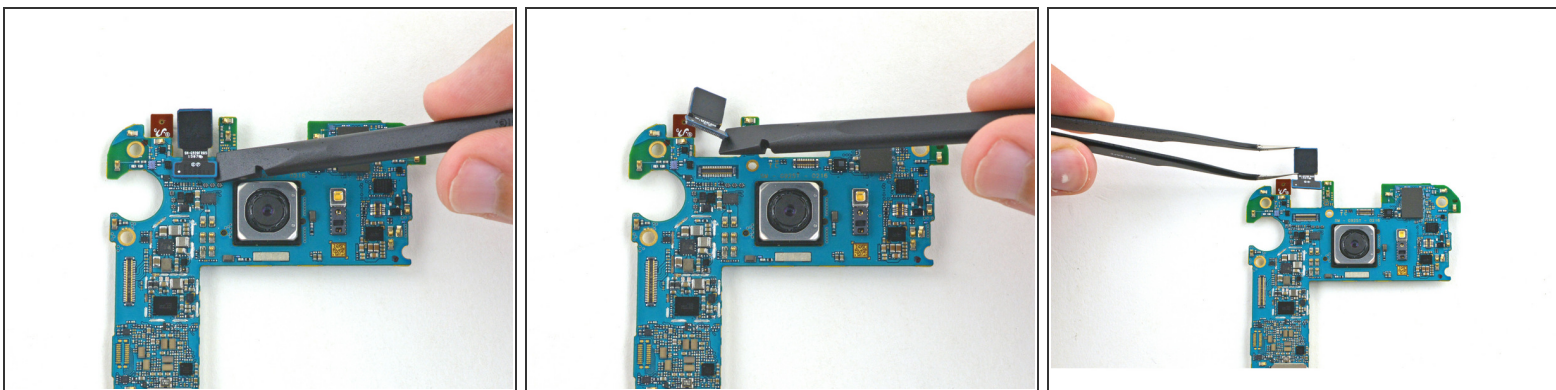
- Lift the motherboard up and away from the display taking care not to put too much stress on the daughterboard ribbon cable.

Step 24



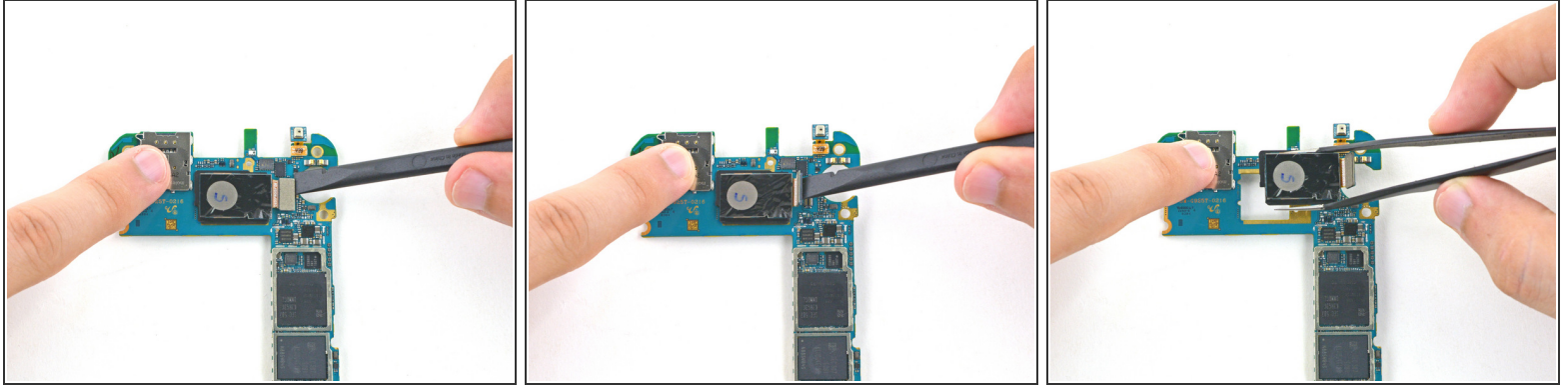
- Disconnect the daughterboard ribbon cable from the underside of the motherboard.

Step 25



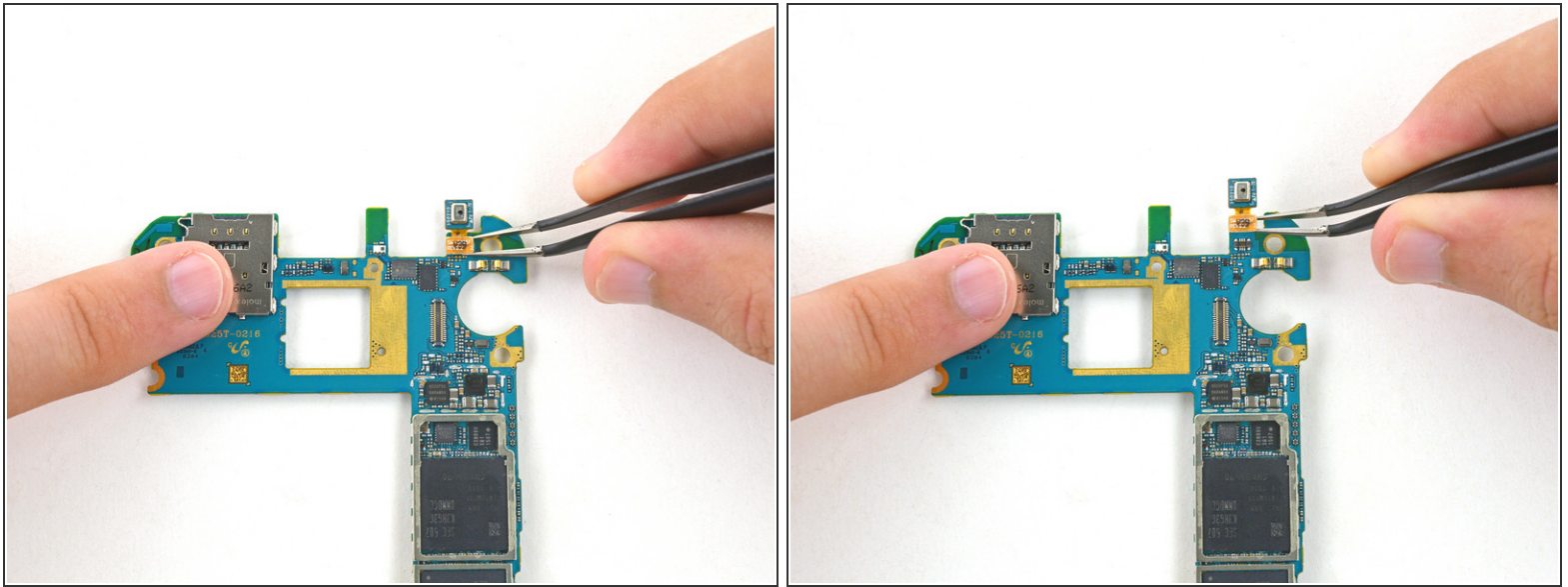
- Using the flat end of a spudger, pry up the front facing camera's connector.
- Carefully remove the front facing camera from the motherboard.

Step 26



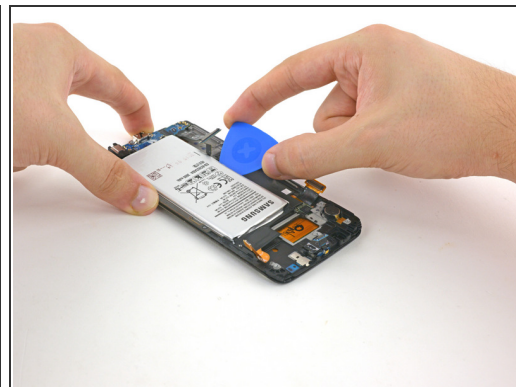
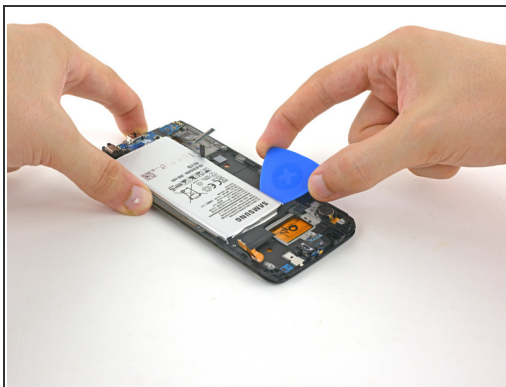
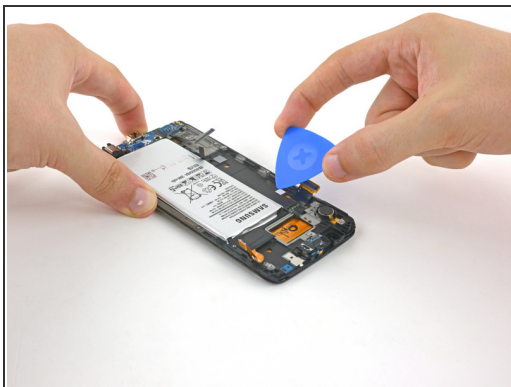
- Using a spudger, pry up the connector for the rear facing camera from the motherboard.
- Remove the rear facing camera from the motherboard.

Step 27



- Remove the microphone from the motherboard.

Step 28 — Battery



- Insert an opening pick underneath the battery and slide it across to break up the adhesive underneath.

Step 29



- Twist the opening pick to fully dislodge the battery and remove it.

Step 30 — Charging Port Daughterboard



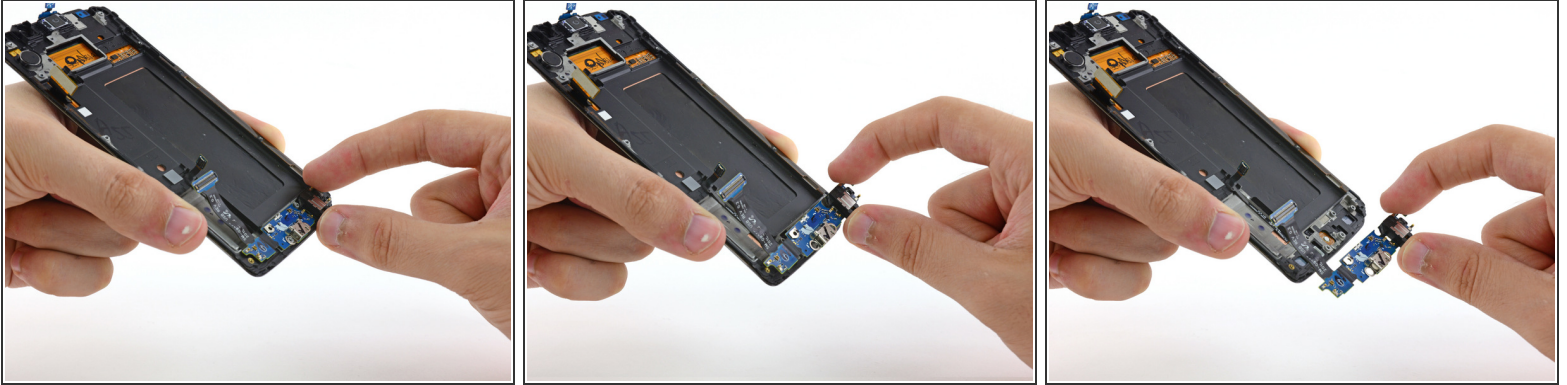
- Remove the two 2.5mm Phillips #00 screws.

Step 31



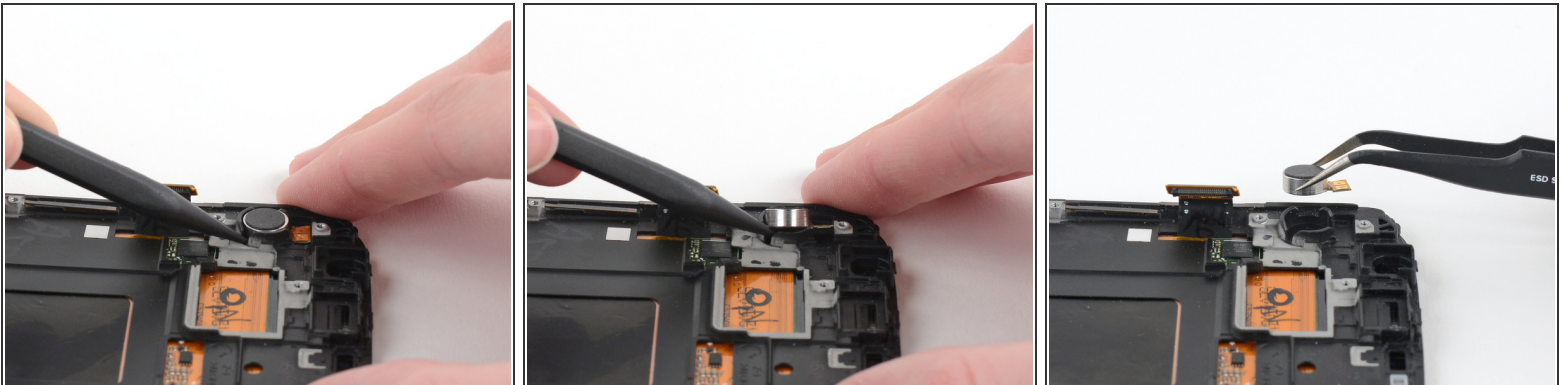
- Using the pointed end of spudger, pry up the small section of daughterboard secured with a light adhesive.

Step 32



- Lift the daughterboard up and away from the body of the phone to remove it.

Step 33 — Display Assembly



- Press the tip of a spudger in the gap in the display frame under the vibrator, to pry it off the adhesive.
 - Remove the vibrator from the display assembly.
- i** Compare your replacement part to the display assembly that remains, you may need to transfer additional components such as the display frame or home button.

To reassemble your device, follow these instructions in reverse order. Follow [this guide](#) to reinstall the rear glass.

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